SANYO

Instruction Manual
Manuel d'utilisation
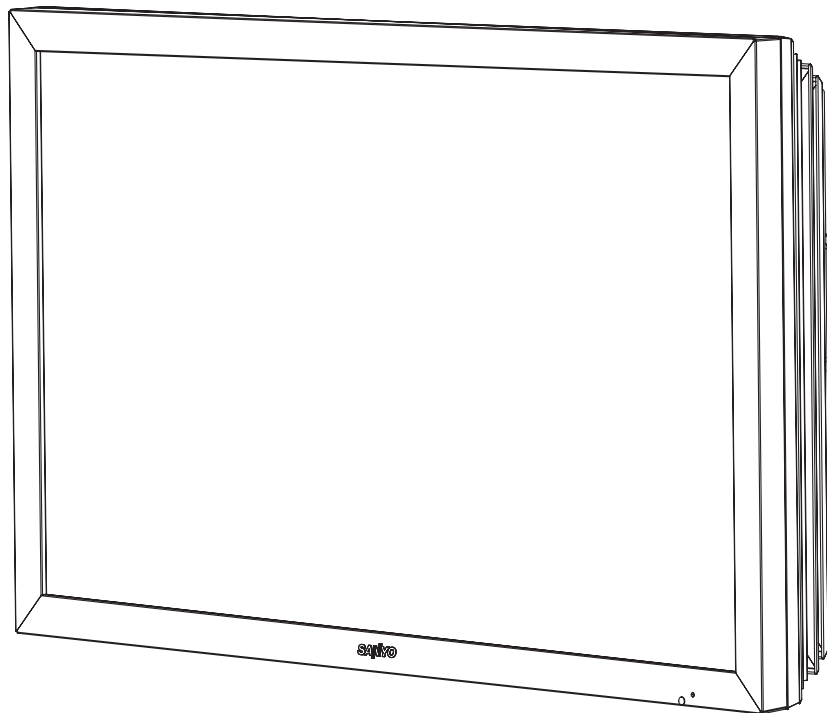## Manual de instrucciones

CE52SR1

LCD Monitor

**Moniteur d'affichage à cristaux liquides**

Monitor de LCD

Please read this Instruction book before using your LCD monitor. We wish you many hours of pleasure from your new LCD monitor.

Veuillez lire attentivement ce mode d'emploi avant d'utiliser votre moniteur d'affichage à cristaux liquides. Nous espérons que votre nouveau dispositif d'affichage vous procurera de nombreux instants de bonheur.

Lea este manual de instrucciones antes de usar su nuevo monitor. Deseamos que disfrute de él muchas horas.

CAUTION: Please read and retain for your safety. This unit has been designed and manufactured to assure your personal safety, but improper use can result in potential electric shock or fire hazards. In order not to defeat the safeguards incorporated in this monitor observe the following basic rules for its installation, use and servicing.

Installation and Use
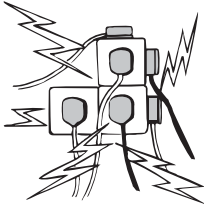
Do not allow anything to rest on the power cord. **Do not** locate this LCD monitor where the cord will be damaged by people walking on it.

Do not overload wall outlets and extension cords as this can result in fire or electric shock.
A suitable socket outlet must be provided near to the monitor and shall be easily accessible.

Do not place this LCD monitor near any heat sources such as radiators, heaters, stoves and other heat-generating products (including amplifiers).

Do not place your LCD monitor on an unstable stand, shelf or table. Serious injury to an individual, and damage to the LCD monitor may result if it should fall. Your sales person can recommend an approved wall mounting kit. A special wall mounting kit is available for this model.

This LCD monitor should be operated only from the type of power source indicated on the monitor or as indicated in the Operating Instructions. If you are not sure of the type of power supply, consult your sales person or your local power company.

For added protection it is strongly recommended that this LCD monitor has its mains supplied via an approved earth fault protection device.

WARNING: To prevent injury the LCD monitor must be securely attached to the wall in accordance with the manufacturers installation instructions.
IMPORTANT:
This product must be earthed
This unit is not disconnected from the mains unless the mains lead is unplugged. The installer must make sure that the waterproof inline coupler is easily accessible.

This monitor is tested to **IP66** standard rating.
This monitor is **not** protected against temporary or continuous immersion in liquid.

Do not use immediately after moving the LCD monitor from a low temperature to a high temperature environment, as this causes condensation, which may result in fire, electric shock, or other hazards. Before cleaning, unplug the monitor from the wall socket.

Do not mount near an open flame source. Open flames must never be used near this LCD monitor.
This LCD monitor should not be built in or enclosed in any way, heat build up will reduce the life of the monitor.

This LCD monitor should have a minimum distance of 5cm away from the wall and the monitor should have 10cm distance around the top and sides.
Always mount using recommended and substantial fixtures and fittings.
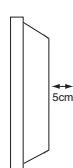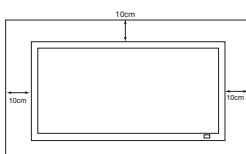
The rear finned section around the cabinet functions as a heat sink, removing heat away from the monitor. The external surface of the cabinet (finned area) must not be covered or the airflow restricted in anyway by enclosing the LCD monitor.

The operating temperature range of this monitor is guaranteed 0°C ~ 40°C/32°F ~ 104°F. It is not recommended to install the screen in direct sunlight without adequate shading, as this will cause the temperature of the panel to rise above the maximum specified. Doing so may cause a black shadow to appear on the screen which will disappear when the screen temperature returns to within the specification. This "of course" does not produce any harmful effect on the lifetime of the monitor.
Do not apply liquid cleaners or aerosol cleaners directly onto the LCD monitor. Use a damp cloth for cleaning.

ADDITIONAL FOR NORTH AMERICA AND CANADA:
This monitor must **NOT** be permanently mounted to the building structure. It must be mounted in such a way that it can be removed using basic tools.
The power supply cord must **NOT** be attached to the building surface. The power supply cord must **NOT** be routed through walls, ceiling, floors, or other similar openings in the building structure.
The power supply cord **MUST** be positioned so as to prevent physical damage.

Important: (UK only)

THIS PRODUCT MUST BE EARTHED

This equipment is fitted with an approved mains lead and an approved non rewireable UK mains plug. To change a fuse in this type of plug proceed as follows:

1. Remove the fuse cover and fuse.

2. Fit a new fuse which should be a BS1362 13 Amp A.S.T.A. or BSI approved type.

3. Ensure that the fuse cover is correctly refitted.

If the fuse cover is lost or damaged the plug must **NOT** be used but replaced with a serviceable plug.
If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place. If the mains plug contains a fuse, this should have a rating of 13 Amp, ensure the fuse cover is correctly fitted. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 13 Amp.

Note: The severed plug must be destroyed to avoid a possible shock hazard should it be inserted into a 13 Amp socket elsewhere.

The wires in this mains lead are coloured in accordance with the following code:

> Blue ------->   Neutral
> Brown ---->   Live
> Green and Yellow ---->   Earth

1. The Blue wire must be connected to the terminal which is marked with the letter "N" or coloured BLACK.

2. The Brown wire must be connected to the terminal with the letter "L" or coloured RED.

3. The Green and Yellow wire must be connected to the terminal which is marked with the letter "E" or coloured GREEN or GREEN and YELLOW.

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead - not simply over the wires.

Do not attempt to bypass the safety purpose of the grounding type plug.

THIS UNIT IS NOT DISCONNECTED FROM THE MAINS UNLESS THE MAINS LEAD IS UNPLUGGED.

THE INSTALLER MUST MAKE SURE THE MAINS LEAD IS EASILY ACCESSIBLE.

Servicing

Your monitor is fully transistorised and does not contain any user serviceable components.

You must not remove the rear cover of the monitor by yourself. The apparatus is working with high voltages and could damage objects or even endanger people. Leave all required repair and service jobs to an authorised service technician. He will exclusively use such spare parts that are complying with the same safety standards as applicable to the original parts. The use of original spare parts can prevent fire, shock and other hazards.

Unplug the LCD monitor from the wall outlet and refer servicing to qualified service personnel under the following conditions:

■ If the power cord or plug is damaged.

■ If liquid has been spilt in to the LCD monitor.

■ If the LCD monitor has been dropped or the cabinet has been damaged.

■ If the LCD monitor exhibits a distinct change in performance.

■ If the LCD monitor does not operate normally by following the operating instructions.

Adjust only those controls that are covered in the operating instructions as improper adjustment of other controls may result in damage. This will often require extensive work by a qualified technician to restore the monitor to normal operation.

Important recycling information.

Your SANYO product is designed and manufactured with high quality materials and components which can be recycled and reused.

This symbol means that electrical and electronic equipment, at their end-of-life, should be disposed of separately.

In the European Union there are separate collection systems for used electrical and electronic products.

Please help us to conserve the environment we live in!
Note: This symbol mark and recycle system are applied only to EU countries are not applied to other countries of the world.

Declaration of Conformity: North America and Canada

Model Number   : CE52SR1
Trade name   : Sanyo
Responsible party   : SANYO FISHER COMPANY
Address   : 21605 Plummer Street, Chatsworth, California 91311
Telephone   : (818) 998-7322

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interence that may cause undesired operation.

AC Power Cord Requirement

The AC Power Cord supplied with this LCD monitor meets the requirement for use in the country in which you purchase it.

AC Power Cord for the United States and Canada:

AC Power Cord used in the United States and Canada is listed by the Underwriters Laboratories (UL) and certified by the Canadian Standard Association (CSA).
AC Power Cord has a grounding-type AC line plug. This is a safety feature to make sure that the plug will fit into the power outlet. Do not try to defeat this safety feature. Should you be unable to insert the plug into the outlet, contact your electrician.
THE SOCKET-OUTLET SHOULD BE INSTALLED NEAR THE EQUIPMENT AND EASILY ACCESSIBLE

GROUND
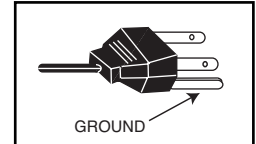
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   ● copy all or part of the Software;

   ● incorporate all (or any of) the Software into other programs developed by (or on behalf of) you and/or used by you;

   ● reverse-engineer, decompile or disassemble the Software;

   ● make the Software (or any part of it) available, or permit its redistribution, for use with any computer hardware other than the Product; or rent, lease, gift, loan, sell, distribute or transfer possession of the whole or any part of the Software.

Termination

This license is effective until terminated. This license will terminate automatically without notice if you fail to comply with any of its provisions.

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2. In no circumstances will SANYO be liable for any direct, indirect, consequential, or incidental damage (including loss of profits, business interruption, loss of data or the cost of procurement of substitute goods, technology or services) arising out of the use or the inability to use the Software (save to the extent that such liability is not capable of exclusion at law).

General

1. This End-User License will be governed by laws of England and the User may only bring claims in the English Courts and SANYO shall be entitled to bring a claim in the courts of any jurisdiction.

2.This End-User License is governed by the laws of the State of California. The End-User and Sanyo agree that any action to enforce or interpret the terms of this End-User License shall be brought only in the appropriate state or federal court located in Los Angeles County, California.The End-User and Sanyo hereby submit to the exclusive jurisdiction and venue of such court.

3. The above terms and conditions supersede any prior agreement, oral or written, between you and SANYO relating to the Software.

Step : 1 Mains Connection

■ Connect the display unit to VGA, BNC and Scart connector as required.

LD-Net
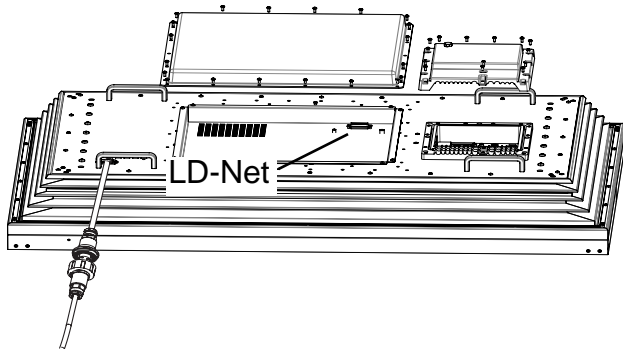
1. Connect the in-line power connector to the Mains Inlet as shown above.

2. Connect the power cord of the LCD monitor to a suitable wall outlet.

✎ As this product does not have a mains On/Off switch, please ensure your mains plug is easily accessible.

✎ The LCD monitor is prepared for a mains voltage AC100~240V, 50Hz/ 60Hz. To completely switch off the mains, or when the display unit is not to be used for an extended period of time, it is advisable to disconnect the power cord from the power outlet.

AC Mains Outlet
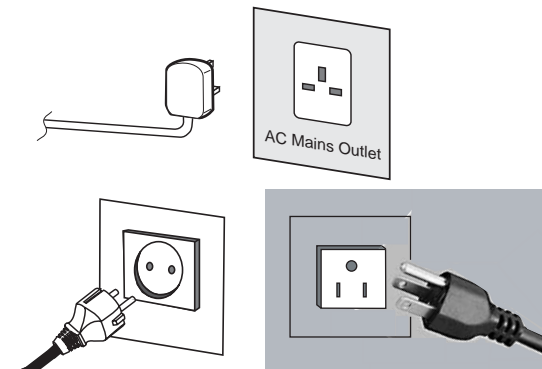
✎ Please use the correct mains lead supplied with the set for your area.

3. **Warning:** To prevent injury, the unit **must** be securely attached to the wall in accordance with the installation instructions.

⚡ **WARNING!** High voltages are used in the operation of this set. Refer service to qualified service personnel.

Step : 2 Connections

■ INPUT selection
To switch between AV1, RGB, AV2, AV3, PC, DVI or Network press the **INPUT** button on your remote control repeatedly.

1. AV1
SCART connection / CVBS / RGB / S-VIDEO.

2. RGB
TTL input (5V RGB signals) into SCART terminal

3. Y,Pb,Pr/ RGBHV connection (AV2)
This LCD monitor has a choice of Y, Pb, Pr or RGB H/V connections. You can connect your DVD player to the Y, Pb, Pr terminals instead of using a scart lead. This can support high definition in analogue component form. RGB H/V can be used as a PC input via the BNC terminals.Both options support a large range of resolutions (page 15).
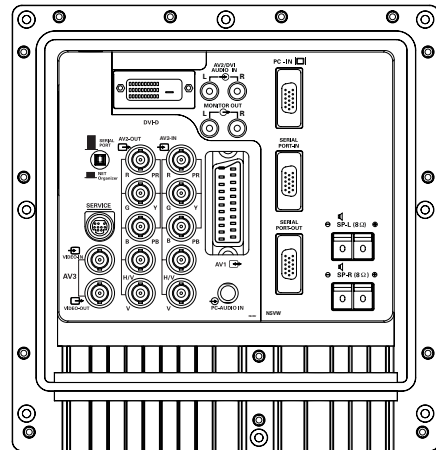

4. AV3
Composite (CVBS) signal input
AV3 OUT is to output the composite video signal from the VIDEO IN so that you can connect monitors with the use of a loop through function.

5. DVI-D (Digital Video Interface)
This monitor has a DVI connector. This is located at the back of the monitor next to the phono sockets. This input will support a large range of resolutions as shown on page 14. See page 7 for details of menu operation.
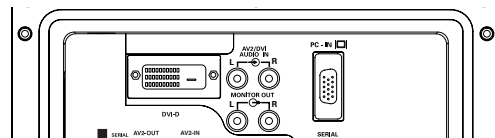
6. PC connection
This LCD monitor has a PC connector (PC-IN D-SUB). You can connect a PC to the LCD monitor and use it as a monitor display (see page 9). This input will support a large range of resolutions (see page 14). Audio can be connected via the 3.5mm PC audio in socket.

7. LD Net IN: Has the ability for LD-NET to be connected to control the monitor using a network.

8. External Audio Output
To output the audio signal from AV1, AV2, AV3, PC and DVI. The speaker impedance should be 8 ohms.

SP-L (8Ω)

SP-R (8Ω)
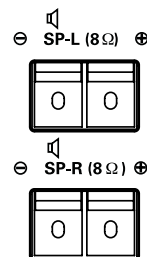
9. Use of Monitor Audio Output Connections
The audio monitor out sockets on the rear of the set provide a fixed level audio output for reproducing sound via your audio equipment.

5

Input

To switch input source from AV1, RGB, AV2, AV3, PC, DVI or Network mode.

Wide

To select the screen mode **Full**, **Full All, Zoom 16:9**, **Title in 16:9, Zoom 14:9, Title in 14:9, Normal** or **Natural wide**,.
Refer to page 11.

Menu

To enter and exit the main menu, and sub menu.

Level Up/Down

To adjust the sound volume level or enter sub menus

F/OK

To confirm the initial setting in the menu.
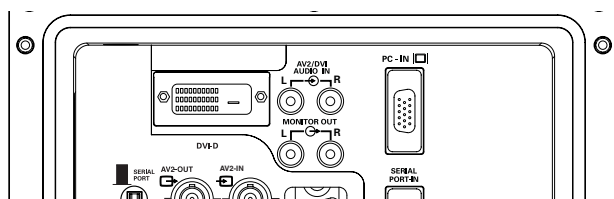
Picture mode selector

Press the ->·<- button repeatedly to select the following picture mode.
Personal-Personal preference mode.
Standard-Normal viewing mode.
Dynamic-Suitable for brightly lit rooms.
Soft- Low contrast setting
Eco-Suitable for dimly lit rooms and gives a cinema-like effect.

Freeze

To switch picture still on or off.

Green

Press this button for more than 5 seconds, installation mode will appear.

Standby

To switch the monitor on and off. Also see page 7.

Recall

To display input selection information and the Time set.
You can also select colour systems in AV1 / AV3 mode as follows: AUTO-> PAL -> SECAM -> NTSC -> NTSC4.43 -> PAL M ->PAL N.
It can also be automatically adjusted in PC mode by pressing this button for twice .

Back

Used to return to the previous menu.

Up and Down

To select the next or previous item.

Sound Mute

To mute the sound from the speakers.
The sound changes as follows : Normal volume <-> Mute

Bass Expander

To get an emphasised bass sound ON or OFF.
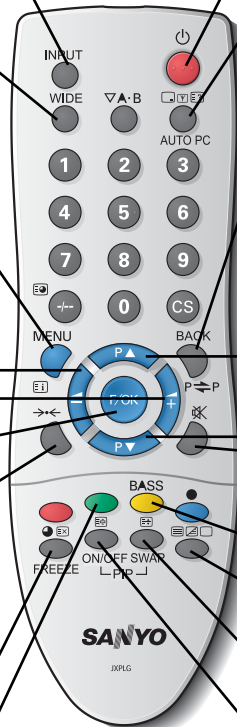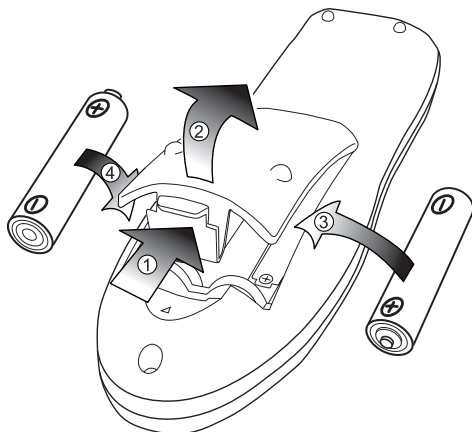
TXT/TV

To select Teletext mode.

Main/Sub Picture Swap

To swap Main and Sub picture.

ON/OFF

To switch **OFF ->PIP(1) ->PIP(2) ->POP** mode in turn.
Refer to page 12.

Remote control battery installation

Install two "AA" 1.5 volt batteries so that the "+" and "-" marks on the batteries match the "+" and "-" marks inside the unit into the remote control handset.

Controls and Menus

1. The LCD display has a Standby light to show there is power.

Switching into/from standby mode
The Standby mode is used for switching the LCD monitor off for short periods of time. In standby mode the monitor is switched off but is still receiving mains power.

● To turn the monitor into standby mode, press the ⏻ **button**. *The blue power indicator illuminates more brightly.*

● To turn the monitor ON from standby mode, press the ⏻ **button** again.

⚠	If you find the power indicator flashing, disconnect power cord from the power outlet and contact our Service desk.
⚡	This warning is a sign to let you know that the power protection function of this TV set is now operating.

2. Control buttons (bottom corner of back cover)

Menu button: Used to display or cancel main menu.

MENU	INPUT / ▼	━	╇	⏻

Input/ ▼ button: Switch between AV1, RGB, AV2, AV3, PC , DVI or Network mode. It is also used to provide sub menu selection from the Main Menu.

━+ or ━−buttons: provide up and down adjustments.

⏻ button: To switch to standby mode (to switch off completely disconnect the monitor from the power supply).

Menu Operation

Many of your monitors functions are controlled through the menu function, using the remote control.

```
MENU
├─ Picture ─ Brightness
│            Contrast
│            Color
│            Tint (only if NTSC equipment is detected)
│            Sharpness
│            White Tone ───── White Tone / R / G / B
│            Advanced Setting ──── DCDi / ACC/ACM / CCS / DNR / MPEG NR / Film Mode
├─ Sound ─ Treble
│          Bass
│          Balance
│          Bass Expander ─── On / Off
├─ Time ─ Current Weekday
│         Current Time
│         Schedule ──── 1 - 20
│         Weekday
│         Time
│         Action ──── Power On / Power Off
│         On Program ──── AV1 / RGB / AV2 / AV3 / PC / DVI
│         Active ──── On / Off
├─ Setup ─ Menu Setup ──── Language / H/V-Position / Duration / Transparence
│          PIP / POP Setup ──── PIP/POP Mode / Main/Sub Source / PIP Position
│          Initial Settings
│          Text Language ──── Western / Eastern / Russian / Arabic / Farsi
│          Tile Mode ── Tile Mode Active / H/V_Sets / H/V Location / Bezel H/V Adjustment
│          AV2 Setting ──RGBHV / YPbPr
│          Native Resolution ──── XGA / WXGA 1366x768
│          PC Power save ──── On / Off
└─ PC Adj.─ Auto Adjust
            H-Position
            V-Position
            Clock
            Phase
```
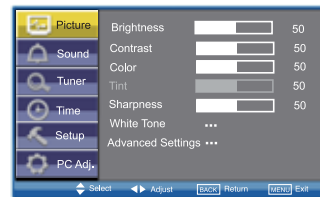
During menu operation the bottom of the on screen display will show which controls can be used for menu navigation.
Press the **MENU** button to **enter** the main menu. Whenever main menu is accessed initially, **PICTURE** will be the default selection.

A sub menu is selected using the **P▲** or **P▼ button** and pressing the ━+ or ━− **button** when the required sub menu is highlighted. When you have finished you can press the **BACK** button to return to the previous menu, press the **MENU** button to exit the menu operation.

Picture	Brightness	50
Sound	Contrast	50
Tuner	Color	50
Time	Tint	50
Setup	Sharpness	50
PC Adj.	White Tone	...
	Advanced Settings	...

◆ Select   ◀▶ Adjust   BACK Return   MENU Exit

Picture menu

1. Press the **MENU button. PICTURE** will be the default selection. Press the ━+ or ━− **button** to enter.
Set the picture settings for your "**personal"** preference.

Picture	Brightness	50
Sound	Contrast	50
Tuner	Color	50
Time	Tint	50
Setup	Sharpness	50
PC Adj.	White Tone	...
	Advanced Settings	...

◆ Select   ◀▶ Adjust   BACK Return   MENU Exit
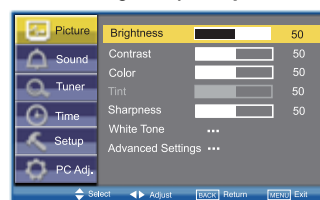
2. Use the **P▲** or **P▼ button** to select eg. Brightness and the ━+ or ━− **button** to adjust levels.

■ White Tone
May be used to adjust the color tone of the picture. Use the **P▲** or **P▼ button** to select **White Tone** and press the ━+ or ━− **button** to enter the sub menu. You can select **Personal**, **Cool**, **Standard** or **Warm** settings by using the ━+ or ━− button. To adjust the color tone of the picture by using the **P▲** or **P▼ button** to select **Red(R)**, **Green(G)** or **Blue(B)** and the ━+ or ━− **button** to adjust levels. These settings will be stored in personal mode automatically.

Picture	White Tone	◀ Standard ▶
Sound	R	60
Tuner	G	71
Time	B	71
Setup		
PC Adj.		

◆ Select   ◀▶ Adjust   BACK Return   MENU Exit

Picture menu

■ Advanced settings

Use the **P▲** or **P▼ button** to select **Advanced settings** and press the **◢+** or **◢− button** to enter the sub menu as follows.
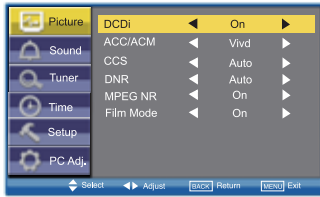
DCDi(Directional Correlational Deinterlacing) is used to process moving angled edge in deinterlacing to get the smoothest and most natural image. Press the **◢+** or **◢− button** on the remote control to select **On** or **Off**.

ACC/ACM(ACC: Adaptive Contrast and Color; ACM-II: Active Color Management-II) is used to select adaptive Brightness, Contrast and tone control. Press the **◢+** or **◢− button** on the remote control to select suitable mode either **Vivid**, **Cinema**, **Sport** or **Off**.

CCS(Cross Color Separation) is used to remove residual chroma information from luminance signal which is the result of imperfect decoding of composite video. Press the **◢+** or **◢− button** on the remote control to select either **Auto, Standard** or **Off**.

DNR(Digital Noise Reduction) is available for noise reduction. Press the **◢+** or **◢− button** on the remote control to select either **Auto, Low, Mid, High** or **Off**.

MPEG NR(MPEG Noise Reduction): Removes unwanted ringing and block noise from images that have undergone MPEG or JPEG compression and decompression. Press the **◢+** or **◢− button** on the remote control to select **On** or **Off**.

Film Mode(Inverse 3:2 pulldown): Film vs.Video-Detect film. Performed on material which underwent technologic conversion to video. Press the **◢+** or **◢− button** on the remote control to select **On** or **Off**.

Sound menu

Press the **MENU button** and select **Sound** using the **P▲** or **P▼ buttons**, press the **◢+** or **◢− button** to enter.
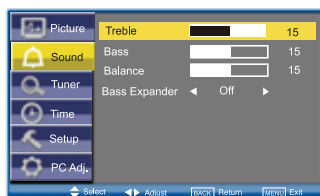
Select and adjust to obtain the best sound settings for your environment using the **P▲** or **P▼ button** to select **Treble**, **Bass** or **Balance** and the **◢+** or **◢− button** to adjust levels. **Bass Expander** can also be selected using the **P▲** or **P▼ button** and pressing the **◢+** or **◢− button** to select **On** or **Off**. These settings automatically store when you exit the menu. Press the **BACK** button to return to the previous menu. Press the **MENU** button to exit menu operation.

Time menu

Press the **MENU button** and select **Time** using the **P▲** or **P▼ buttons**, press the **◢+** or **◢− button** to enter. Press the **BACK** button to return to the previous menu. Press the **MENU** button to exit menu operation.

■ Current Weekday
Use to set current weekday using the **◢+** or **◢− button**.

■ Current Time
Use to set the current time using the Numeric buttons.
✐ *Other items in Time Menu should not be selected until Current Time has been set.*

■ Schedule
Use to set up to 20 separate time schedules, select 1 - 20 using the **◢+** or **◢− button**.

■ Weekday
Use to set any weekday from Sunday through to Saturday or Everyday using the **◢+** or **◢− button**.

■ Time
Use to set any time using the Numeric buttons.

■ Action
Use to set "Power On" or "Power Off" using the **◢+** or **◢− button**.

■ On Program
Use to select **AV1, RGB, AV2, AV3, PC, DVI or Network** using the **◢+** or **◢− button**.

■ Active
Use to select ON or OFF using the **◢+** or **◢− button.** When set "OFF" the above items "Schedule", "Weekday", "Time", "Action" or "ON Program" will be inactive.
Use **NUMERIC buttons** [**0-9**] to set **On Time**. (Action "Power On" - 00:00~23:59)
✐ *Once On Time has been set, when the set time is reached, the monitor will leave the stand-by status and enter to the source automatically.*
✐ *After On Time has been set, you can go on watching other programs. When the set time is reached, the monitor will automatically switch to the preset program.*
✐ *On Program can only be selected whenAction (Power On) has been set.*
✐ *Action (Power Off) can be set to turn the monitor into standby at a selected time*

Once On Program has been set, when the set time is reached, the monitor will enter to the preset source automatically.
Use the **◢+** or **◢− button** to select **On program, AV1, RGB, AV2, AV3, PC, DVI or Network.**

Setup menu

Press the **MENU button** and select **Setup** using the **P▲** or **P▼ buttons**, press the **◢+** or **◢− button** to enter. Press the **BACK** button to return to the previous menu. Press the **MENU** button to exit
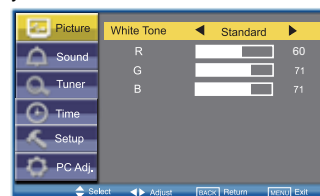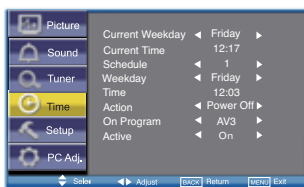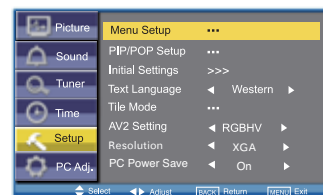

■ Menu Setup
Whenever Setup menu is accessed initially, Menu Setup will be the default selection. Press the **◢+** or **◢− button** to enter the sub menu.
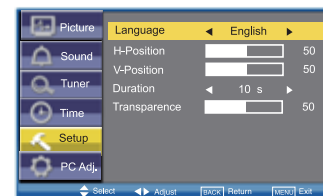
Language is used to select the preferred language. Use the **◢+** or **◢− button** to select **English, French, German, Italian, Spanish or Dutch.**
H-Position changes the OSD position horizontally by using the **◢+** or **◢− button**.
V-Position changes the OSD position vertically by using the **◢+** or **◢− button**.
Duration is used to set the display time of the MENU by using the **◢+** or **◢− button**.(5~120 seconds)
Transparence is used to adjust transparence of menu. Use the **◢+** or **◢− button** to adjust levels.

Setup menu

■ **PIP/POP Setup**
Use the **P▲** or **P▼ button** to select **PIP/POP Setup** and press the
◢**+** or ◢**− button** to enter the sub menu.

Picture			
Sound	PIP/POP Mode	◄ PIP1 ►	
Tuner	Main Source	◄ DVI ►	
Time	Sub Source	◄ AV1 ►	
Setup	PIP Position	◄ Top Left ►	
PC Adj.			
	◆ Select ◆► Adjust [BACK] Return [MENU] Exit		

PIP/POP Mode: Using the ◢**+** or ◢**− button** select the most
suitable mode **PIP1**, **PIP2**, **POP** or **Off**. (Please refer to page 12.)
✐ When **Mode** is set to **Off**, **Sub Source** and **PIP Position** will not
work.
Main Source is used to select input source (AV1, RGB, AV2, AV3,
PC, DVI or Network) for main picture by using the ◢**+** or ◢**−
button**.

Sub Source is used to select input source (AV1, AV2, AV3, PC or
DVI) for sub picture by using the ◢**+** or ◢**− button**.
✐ For a combination of main picture and sub picture: only DVI or
Network input can assemble with other input source. For
example, if main source is selected as AV1 input, then the sub
source must be DVI or Network input.

PIP Position: Using the ◢**+** or ◢**− button** it can be selected
Top Left, **Top Right**, **Bottom Right** or **Bottom Left**.

■ **Initial Settings**
This function returns all setting values **except for** Installation Mode.

■ **Text Language**
Use the **P▲** or **P▼ button** to select **Text Language** and press the
◢**+** or ◢**− button** to select Western, Eastern, Russian, Arabic or
Farsi.

■ **Tile Mode**
This function allows you to split an image to suit your monitor grid
format to create a video wall.
Use the **P▲** or **P▼ button** to select **Tile Mode** and press the ◢**+**
or ◢**− button** to enter the sub menu as follows.
Tile Mode Active can be set **On** or **Off** using the ◢**+** or ◢**−
button**.

Picture			
Sound	Tile Mode Active	◄ On ►	
Tuner	H_Sets	◄ 1 ►	
Time	V_Sets	◄ 1 ►	
	H Location	◄ 1 ►	
Setup	V Location	◄ 1 ►	
PC Adj.	Bezel H Adjustment	5	
	Bezel V Adjustment	5	
	◆ Select ◆► Adjust [BACK] Return [MENU]		

H_Sets is used to divide the horizonal picture into more than one
part, but the most is 5 parts (5 monitors).

V_Sets is used to divide the vertical picture into more than one part,
and the most is also 5 parts (5 monitors). Using the ◢**+** or ◢**−
button** to set.

H Location is used to select one part of the horizonal picture to
display on the current LCD Monitor using the ◢**+** or ◢**− button**.

V Location is used to select one part of the vertical picture to
display on the current LCD Monitor using the ◢**+** or ◢**− button**.

Bezel H Adjustment is used to align the image horizontally with
respect to the other monitors in the video wall to accomodate the
bezel width using the ◢**+** or ◢**− button**. (0~10)

Bezel V Adjustment is used to align the image vertically with
respect to the other monitors in the video wall to accomodate the
bezel width using the ◢**+** or ◢**− button**. (0~10)

■ **AV2 Setting**
Use the **P▲** or **P▼ button** to select **AV2 Setting** and press the
◢**+** or ◢**− button** to select **YPbPr** or **RGBHV**.
Connect your PC to either PC-IN or RGBHV on the rear of the set.
Once connected select PC mode or AV2 (RGBHV, see page 5 for
AV2 input settings) via the **INPUT** button on your remote control.
The set will become a monitor for the PC.

■ **Native Resolution**
Use the **P▲** or **P▼ button** to select **Native Resolution** and press
the ◢**+** or ◢**− button** to select **XGA or WXGA 1366 x 768.**

■ **PC Power Save**
Use the **P▲** or **P▼ button** to select PC Power Save and press the
◢**+** or ◢**− button** to select ON or OFF.

PC Adj. menu
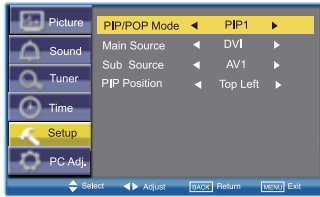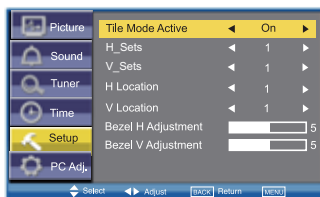
Press the **MENU button** and select **PC Adj.** using the **P▲** or **P▼
buttons**, press the ◢**+** or ◢**− button** to enter. Press the **BACK**
button to return to the previous menu. Press the **MENU** button to exit
menu operation.

Picture			
Sound	Auto Adjust	>>>	
Tuner	H-Position	50	
	V-Position	50	
Time	Clock	50	
Setup	Phase	50	
PC Adj.			
	◆ Select ◆► Adjust [BACK] Return [MENU] Exit		

Auto Adjust is used to automatically detect incoming signal, and
adjust itself to optimize its performance by using the ◢**+** or ◢**−
button**. If the image is not displayed properly, a manual adjustment
is required (Refer to following adjustments).
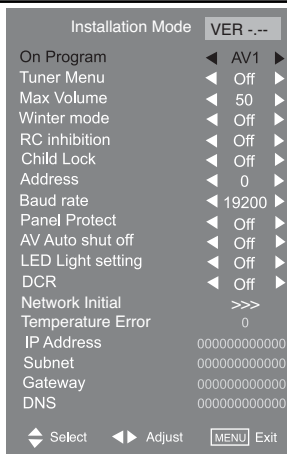
H-Position is used to move the horizontal picture position by using
the ◢**+** or ◢**− button**.

V-Position is used to move the vertical picture position by using the
◢**+** or ◢**− button**.

Clock is used to eliminate flicker from the image by using the ◢**+**
or ◢**− button**.

Phase is used to eliminate disorder from the image by using the
◢**+** or ◢**− button**.

9

Installation Mode

Installation Mode	VER -.--
On Program	◄ AV1 ►
Tuner Menu	◄ Off ►
Max Volume	◄ 50 ►
Winter mode	◄ Off ►
RC inhibition	◄ Off ►
Child Lock	◄ Off ►
Address	◄ 0 ►
Baud rate	◄ 19200 ►
Panel Protect	◄ Off ►
AV Auto shut off	◄ Off ►
LED Light setting	◄ Off ►
DCR	◄ Off ►
Network Initial	>>>
Temperature Error	0
IP Address	000000000000
Subnet	000000000000
Gateway	000000000000
DNS	000000000000

‡ Select   ◄► Adjust   MENU Exit

This LCD monitor allows you to set up the following:

SETTING PROCEDURE

1 . Press and hold the **GREEN button** on the remote control for 5 seconds. (Installation Mode will appear)

2. Use the **P▲** or **P▼ button** to highlight **each option**, use the ◢+ or ◢− button to adjust each option. Press the **MENU button** to exit the mode.

■ On Program
Select ON program using the **P▲** or **P▼** button, select the start up position using the ◢+ or ◢− buttons.
(Off/ AV1/ RGB/ AV2/ AV3/ PC/ DVI or Network)

■ Max Volume
Select Max volume using the **P▲** or **P▼** button, use the ◢+ or ◢− buttons to set the maximum volume required.

■ Winter mode
This Function can be activated when the LCD monitor is used during cold temperature conditions, approximately 38˚F/ 4˚C or below to maintain picture performance.
Using the **P▲** or **P▼ button** select winter mode, once highlighted you can select ON or OFF by pressing the ◢+ or ◢− **button**.
IMPORTANT: The AC cord should not be disconnected during the operation of Winter mode function.
When in winter mode, power consumption is higher than normal standby consumption. This is entirely due to the operation of heating circuitry. We strongly recommend to turn off Winter mode when the ambient temperature is above 38˚F/ 4˚C.

■ RC inhibition
You can prevent unwanted remote control operation by selecting RC Inhibition.
Select using the **P▲** or **P▼** button. Press the ◢+ or ◢− **button** to select On or Off.
To re-instate RC operation press and hold the green button on the remote control and select RC inhibition OFF.

■ Child Lock
You can prevent unwanted operation of the LCD monitor via the buttons on the rear of the monitor.
Select using the **P▲** or **P▼ button**. Press the ◢+ **button** to select On or OFF. The 'Child Lock' OSD will appear if buttons are pressed when child lock is On.
✎ Standby operates normally when childlock is set "On".

■ Address
Set the address for the LCD monitor (0 - 999).

■ Baud rate
Select Baud rate using the **P▲** or **P▼** button. To set transmission speed RS232 or LD-NET communication for 19200 or 9600 Baud rate by pressing the ◢+ or ◢− **button**.

■ Panel Protect
Select Panel Protect using the **P▲** or **P▼** button, once highlighted you can select ON or OFF by pressing the ◢+ or ◢− **button**.

■ AV Auto shut off
Select AV Auto Shut Off using the **P▲** or **P▼** button, once highlighted you can select On or Off by pressing the ◢+ or ◢− **button**.

■ LED Light setting
Select LED Light setting using the **P▲** or **P▼** button, once highlighted you can select On or Off by pressing the ◢+ or ◢− **button**.

■ DCR
Select DCR using the **P▲** or **P▼** button, once highlighted you can select On or Off by pressing the ◢+ or ◢− **button**.

■ Network Initial
This function automatically installs the IP Address, Subnet, Gateway and DNS information.

■ Temperature Error
This function can record times for abnormal temperture.

■ IP Address / Subnet / Gateway / DNS
These 4 items display the LD-Net information. If LD-NET is NOT connected, all the items would be displayed as "000000000000".

✎ Disconnecting the mains supply before exiting Installation Mode will cancel the following features On program, RC inhibition, Address and Baud Rate.

Selection of picture size

Select screen size from FULL, FULL ALL, ZOOM 16:9, TITLE IN 16:9, ZOOM 14:9, TITLE IN 14:9, NORMAL or NATURAL WIDE by pressing the WIDE button repeatedly on the Remote Control.

✎ When in AV2 (RGBHV) orPC mode FULL or NORMAL can be selected.
Note: Full - Set display area 100%

✎ Only in DVI or AV2 (YPbPr) displaying high resolution content FULL and FULL ALL are selectable.
Note : FULL - Set display area 95%
     FULL ALL - Set display area 100%

All other inputs AV1, AV3, DVI or AV2 (YPbPr) (displaying lower resolutions) can select all picture sizes.

■ Full / Full All

4:3	14:9	16:9	Letterbox Video
The whole screen is filled stretching the width.	The whole screen is filled stretching the height slightly at the edges.	The whole screen is filled with the corrrect picture ratio.	The black bars top and bottom are present and the height is compressed.

■ Zoom 16:9

4:3	14:9	16:9	Letterbox Video
The correct picture width is maintained but the top and bottom are cropped.	Zooms in slightly cropping the top and bottom.	Zooms in slightly cropping the top and bottom.	The black bars top and bottom are smaller and the picture height is compressed slightly.

■ Title in 16:9

4:3	14:9	16:9	Letterbox Video
As Zoom (16:9), but bottom is compressed even more to allow subtitles to be seen.	As Zoom (16:9), but bottom is compressed even more to allow subtitles to be seen.	As Zoom (16:9), but bottom is compressed even more to allow subtitles to be seen.	As Zoom (16:9), but bottom is compressed even more to allow subtitles to be seen.

■ Zoom 14:9

4:3	14:9	16:9	Letterbox Video
The correct picture width is maintained but the top and bottom are cropped.	Zooms in slightly cropping the top and bottom.	Zooms in slightly cropping the top and bottom.	The black bars top and bottom are smaller and the picture height is compressed slightly.

■ Title In 14:9

4:3	14:9	16:9	Letterbox Video
As zoom (14:9), but bottom is compressed even more to allow subtitles to be seen.	As zoom (14:9), but bottom is compressed even more to allow subtitles to be seen.	As zoom (14:9), but bottom is compressed even more to allow subtitles to be seen.	As zoom (14:9), but bottom is compressed even more to allow subtitles to be seen.

■ Normal

4:3	14:9	16:9	Letterbox Video
The correct ratio is maintained with black bars on the left and right.	Black bars left and right, picture height is stretched.	Black bars left and right, picture height is stretched.	Black bars left, right, top and bottom.

■ Natural Wide

4:3	14:9	16:9	Letterbox Video
Stretches the picture horizontally to fill the screen. The picture is more stretched at the edges.	The height is expanded to fill the whole screen.	The picture fills the screen and is proportionally correct.	The black bars top and bottom remain and the height is compressed to fit the picture area.

PIP/POP Operation

Using this function, you can enjoy a **DVI** or **Network** program and an image (**AV1**, **AV2**, **AV3** or **PC** input) at the same time.
Press the **ON/OFF** button on the Remote Control repeatly to select **PIP1**, **PIP2**, **POP** or **OFF** mode.

During the PIP/POP mode, press the **Main/Sub Picture Swap** button will switch the location for main and sub picture.

✐ *Only the sound on the main picture is heard from the monitor speaker. The sound on the sub-picture cannot be heard.*

✐ *The details for PIP/POP operation (eg,location for sub picture or input source for any picture,etc.), please refer to page 9.*

■ **PIP1 mode**
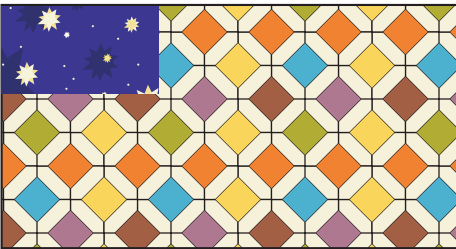
■ **PIP2 mode**
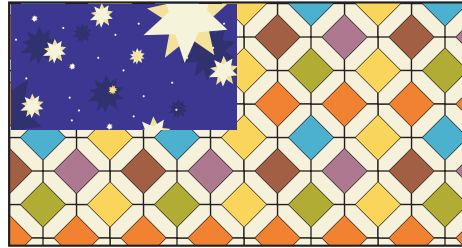
■ **OFF mode**
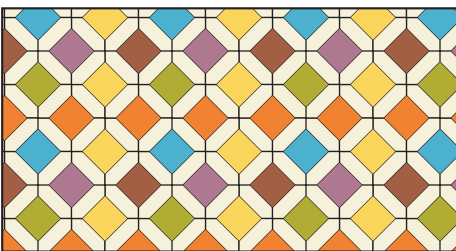
■ **POP mode**

The left picture is main picture, the right picture is sub picture.

Teletext Operation

Teletext is only available via external sources.
Teletext mode can be operated by the following buttons on the
Remote Control.
✐ Some buttons have dual functions

TXT/TV

Press TXT/TV button to select teletext. Press again will display:
AV mode: AV/ TEXT mode/ MIX mode/ AV
Note:
MIX mode: AV (broadcast image) screen and the contents of TEXT
(superimposed) are displayed simultaneously.
CANCEL mode: TEXT/MIX MODE is cancelled temporarily and AV image is
displayed.
If the signal is removed or disconnected, the monitor will revert to a blue back-
ground with "No signal" message on the screen.
If the TXT/TV button is pressed during the CANCEL mode, the CANCEL mode
will be cancelled, and full text will resume.

Text Subcode

Press this button, "110/. . . ." will be displayed (e.g. the current page is 110).
And press the NUMERIC buttons(0-9) to enter the sub page.
For example, to select sub page 4, press NUMERIC buttons
0-0-0-4, and "110/0004" will be displayed.
When finished, press the text subcode button to return to normal operation.

Text Index

Press this button to select one of the teletext index pages in TEXT, MIX or
CANCEL mode.

Text Red

Use to select the red topic or page number at the bottom of the text page.

Text Green

Use to select the green topic or page number at the bottom of the text page.

Text Yellow

Use to select the yellow topic or page number at the bottom of the text page.

Text Blue

Use to select the blue topic or page number at the bottom of the text page.

Text Cancel

Press the TEXT CANCEL button in TEXT or MIX mode, the TV picture appears
on the screen.
Press this button once again or press TXT/TV button, CANCEL mode will be
cancelled.
In CANCEL mode, "CAN" is always displayed on the upper left of the screen.

Text Hold

Press Text Hold button to stop page request and updating.
HOLD ON:
The Hold symbol will appear instead of the page number.
Update of TELETEXT is forbidden. It holds on the current TEXT screen display
now.
HOLD OFF:
The hold symbol is replaced with the page number.

TELETEXT page data is updated.
The present page is re-requested. (header roll)
Text Hold button will only work whilst in TEXT Mode.

Text Reveal

Press **Text Reveal** button to reveal hidden items on the text page.
Some pages such as quiz pages have the answers hidden. The button may
have to be held to keep the answer on the screen, or press again to remove
the answer.
In Reveal OFF, this indication is not given.
Text Reveal button will only work whilst in text mode.

Page Up and Down

To select the next or previous page.

Volume Up/Down

To adjust the sound volume level.

Text Size

Press Text Size button to enlarge the top half of the text page.
Press Text Size button again to enlarge the bottom half of the text page.
Press Text Size button again to return to the normal size page.
(Normal/ top half enlargement/ bottom half enlargement/ normal)
Note:
During the top half or bottom half enlargement mode, if a page request is
performed by [0-9] numeric buttons or the TEXT INDEX button, it will return
to normal mode and a page will be requested.
If HOLD ON / OFF is performed during the top half enlargement mode, it will
hold the top half enlargement mode. (HOLD symbol will display)
If HOLD ON / OFF is performed during the bottom half enlargement mode, it
will hold the bottom half enlargement mode. (HOLD symbol will NOT display)

Specification

Common specification

Power source	100~240V 50Hz / 60Hz
Colour system	PAL / NTSC / NTSC4.43/ SECAM

AV terminal

AV1: Scart CENELEC Standard
Input: Composite video, RGB (5V RGB with 5V sync to pin 14) and audio-L/R
Output: composite video from AV3 and audio L/R

AV2: BNC
Input: RGB, H and V / Y, Pb, Pr and audio L/R
Output: RGB, H and V / Y, Pb, Pr

AV3: BNC
Input: Composite video
Output : Composite video

Audio Monitor Out: CINCH L/R
Audio Speaker Out: 2 x 10W

DVI	Input :	DVI-D GROUP Standard
PC	Input:	Mini D-SUB 15 PIN and Audio 3.5mm Jack

Serial Port: RS232C: Input / Output
Net Organiser: POA-LN02 (optional)
When ordering these products, give the Name and Type No. to the sales dealer.

Contrast Ratio	1500:1
Screen(inches/ cm) (viewing measured diagonally)	52"/132cm
Display Native Resolution	1920X1080
Viewing angles	H:176°, V:176°
Dimensions (WxHxD)	1304 x 800 x 234mm
Weight (kg)	83

Helpful hints

■ **NO PICTURE NO SOUND**
● Check if monitor is plugged in.
● Check monitor is not in standby mode.

■ **POOR PICTURE**
● Adjust BRIGHTNESS/ CONTRAST LEVELS (too low).

■ **NO COLOUR, PICTURE OK**
● Adjust COLOUR control.
● Check lead connections.
● Does the signal input have colour.

■ **REMOTE CONTROL DOES NOT WORK**
● Check batteries are inserted correctly.
● Check condition of batteries.
● Check to see if remote control inhibit is set ON.

■ **PICTURE OK, NO SOUND**
● Check external speakers are connected correctly.
● Check lead connections to external equipment.
● Check volume turned down or mute selected.

CE52SR1

14
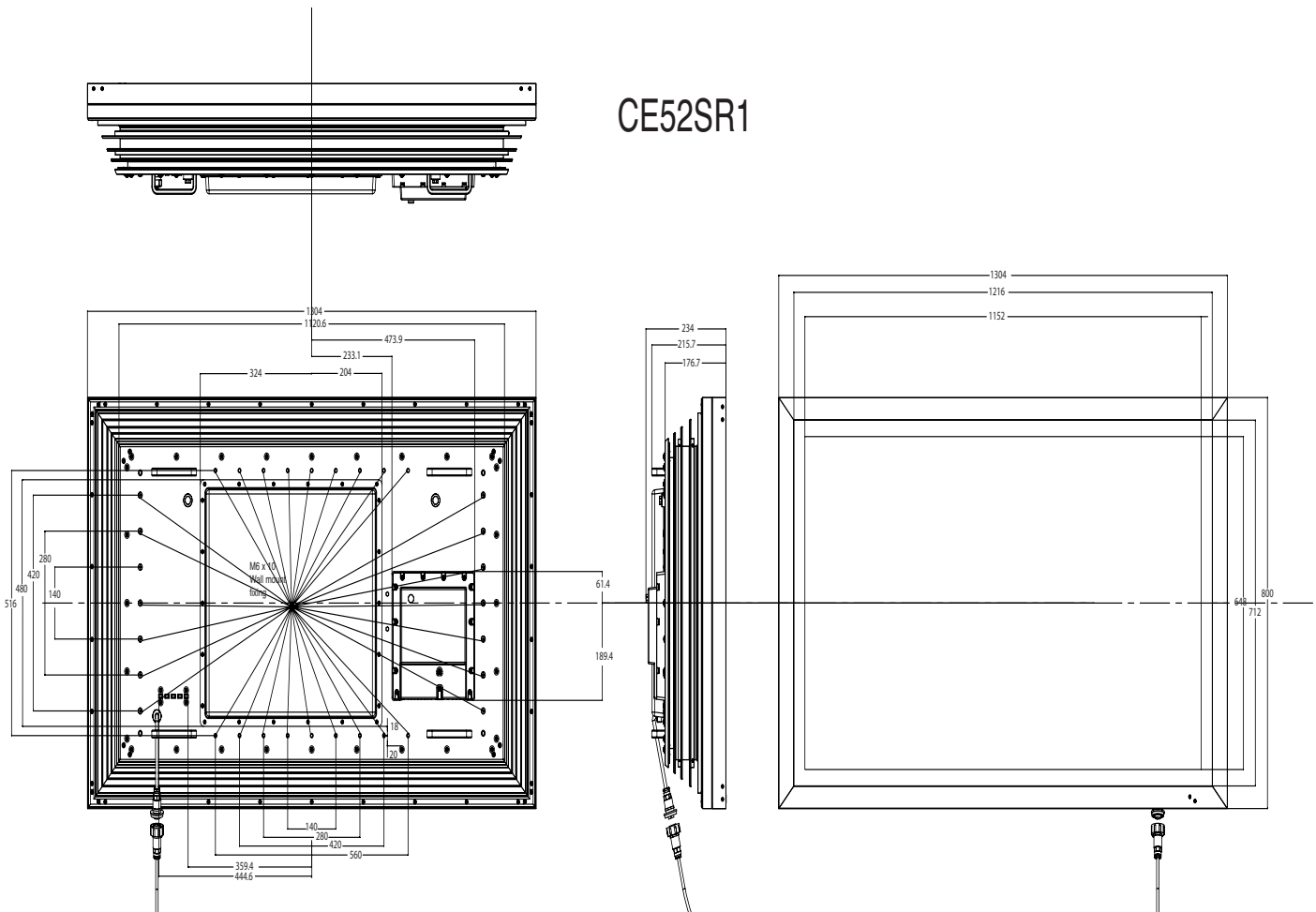
PC signal support timing

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Remark
720_400	31.47	70.09	DOS (VGA)
640_480	31.43	59.88	VGA VESA 60Hz
640_480	37.50	75.00	VGA VESA 75Hz
640_480	37.86	72.81	VGA VESA 72Hz
640_480	43.27	85.00	VGA VESA 85Hz
640_480	35.00	66.67	Mac. 13
640_480	34.97	66.60	Mac LC 13"
800_600	35.16	56.25	SVGA VESA 56Hz
800_600	37.88	60.32	SVGA VESA 60Hz
800_600	46.875	75.00	SVGA VESA 75Hz
800_600	34.50	55.38	SVGA
800_600	38.00	60.51	SVGA
800_600	53.67	85.06	SVGA VESA 85Hz
832_624	49.72	74.55	Mac. 16
1024_768	48.36	60.00	XGA VESA 60Hz
1024_768	56.47	70.07	XGA VESA 70Hz
1024_768	60.02	75.03	XGA VESA 75Hz
1024_768	48.50	60.02	XGA
1024_768	60.31	74.92	XGA
1024_768	61.00	75.70	XGA
1024_768	68.68	85.00	XGA VESA 85Hz
1024_768	60.24	75.08	MAC_Normal 19"
1280_720	37.5	50.00	720p-50Hz
1280_960	60.00	60.00	SXGA VESA 60Hz
1280_1024	79.976	75.025	SXGA VESA 75Hz
1280_1024	63.370	60.01	SXGA
1280_1024	63.34	59.98	SXGA
1280_1024	63.74	60.01	SXGA
1280_1024	63.79	60.18	SXGA
1280_1024	63.90	60.00	SXGA
1280_1024	81.13	76.107	SXGA
1152_900	61.20	65.20	SXGA
1152_900	61.85	66.00	SXGA
1152_900	71.40	75.60	SXGA
1400_1050	65.35	60.12	SXGA +
1400_1050	65.12	59.90	SXGA +
1152_870	68.68	75.06	MAC_Normal 21"
1280_1024	80.00	75.00	Mac ll
1600_1200	75.00	60.00	UXGA VESA 60Hz
1366_768	48.36	60.01	WXGA
1360_768	47.73	60.03	WXGA
1920_1080	28.125	50.00	1080i-50Hz
1920_1080	33.75	60.00	1080i-60Hz

The monitor can be automatically adjusted in pc mode when receiving a standard VESA signal

It will be displayed as XGA when the monitor is receiving a XGA or WXGA signal.

Component signal support timing

Resolution	Horizontal frequency (KHz)	Vertical frequency (Hz)	Remark
720x480	15.735	60i	SDTV 480i
720x576	15.625	50i	SDTV 576i
720x480	31.25	60p	SDTV 480p
720x576	31.25	50p	SDTV 576p
1280x720	45.00	60p	HDTV 720p
1280x720	37.50	50p	HDTV 720p
1920x1080	33.75	60i	HDTV 1080i
1920x1080	28.13	50i	HDTV 1080i

DVI-D SIGNAL SUPPORT TIMING

Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Remark
640_480	31.43	59.88	VGA VESA 60Hz
640_480	37.86	72.81	VGA VESA 72Hz
640_480	37.5	75	VGA VESA 75Hz
640_480	34.97	66.6	MAC LC 13"
640_480	35	66.67	MAC_ NORMAL 13"
800_600	35.16	56.25	SVGA VESA 56Hz
800_600	37.88	60.32	SVGA VESA 60Hz
800_600	46.875	75	SVGA VESA 75Hz
832_624	49.72	74.55	MAC_ NORMAL 16"
1024_768	48.36	60	XGA VESA 60Hz
1024_768	60.23	75.03	XGA VESA 75Hz
1024_768	56.47	70.07	XGA VESA 70Hz
1024_768	60.24	75.08	MAC_ NORMAL 19"
1152_870	68.68	75.06	MAC_ NORMAL 21"
1280_1024	63.98	60.02	SXGA VESA 60Hz
720_480	31.7	59.94	480p
720_480	15.73	59.94	480I
768_575	31.25	50	575p
768_575	15.63	50	575I
1280_720	37.5	50	720p-50Hz
1280_720	45	60	720p-60Hz
1366_768	48.36	60	WXGA
1360_768	47.7	60	WXGA
1920_1080	28.125	50	1080i-50Hz
1920_1080	33.75	60	1080i-60Hz
1920_1080	56.25	50	HDTV1080p-50Hz
1920_1080	67.5	60	HDTV1080p-60Hz
1920_1080	27.00	24	HDTV1080p-24Hz
1920_1080	28.13	25	HDTV1080p-25Hz
1920_1080	33.75	30	HDTV1080p-30Hz

Depending on the condition of signals and the type and length of cables, these signals may not be properly viewed.

To save the **native resolution 1366_768** setting switch the monitor off then on using the standby button.

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RS232C Command Tables

Functional Execution Command Table

Command	Item
C00	POWER ON
C01	POWER OFF
C24	Wide "Natural" direct
C25	Wide "Zoom 16:9" direct
C26	Wide "Title in 16:9" direct
C27	Wide "Zoom 14:9" direct
C28	Wide "Title in 14:9" direct
C29	Wide "Full" direct
C0F	Wide "Normal" direct
C70	AV1 direct
C71	RGB direct
C72	AV2 RGBHV direct
C73	AV2 YPbPr direct
C74	AV3 direct
C75	DVI direct
C76	PC direct
C64	PC Auto adjust
C92	Factory settings
CF PSAVE ON	Power save ON
CF PSAVE OFF	Power save OFF
CF CLOK ON	Child lock ON
CF CLOK OFF	Child lock OFF
CF DEA RMCY	RC inhibition OFF
CF DEA RMCN	RC inhibition ON

Image control Read Command Table

Status read command	Item
CR BRIGHT	Status of Brightness.
CR CONT	Status of Contrast.
CR COLOR	Status of Color.
CR TINT	Status of Tint.
CR SHARP	Sharpness.
CR WBAL	Status of White Balance Mode information.
CR WBAL-R	Status of White Balance Red
CR WBAL-G	Status of White Balance Green
CR WBAL-B	Status of White Balance Blue
CR NZRED	Status of Noise reduction setting.
CR FILM	Status of Film mode setting.
CR IMAGE	Status of Image selection. （The same as PICTURE mode）
CR DCDI	Status of DCDi setting.
CR ACCACM	Status of ACC/ACM setting.
CR CCS	Status of CCS setting.
CR MPEGNR	Status of MPEG NR setting.

PC Read Command Table

Status read command	Item
CR H-POS	Status of Horizontal position.
CR V-POS	Status of Vertical position.
CR PHASE	Status of PHASE value.
CR CLOCK	Status of CLOCK value.

Input Read Command Table

Status read command	Item
CR INPUT	Status of Input selection.
CR SOURCE	Status of Input source mode.
CR SYSTEM	Status of system of Input mode.

Screen Read Command Table

Status read command	Item
CR SCREEN	Status of screen size（The same of WIDE mode）

RS232C Command Tables

Time Read Command Table

Status read command	Item
CR PANELH	Status of accumulated lifetime of panel. （The same as CR_LAMPH Command）
CR MONH	Status of accumulated lifetime of monitor （The same as CR_PROJH Command）

Sound control Read Command Table

Status read command	Item
CR VOLUME	Status of volume value.
CR MUTE	Status of MUTE.

Setting Read Command Table

Status read command	Item
CR LANG	Status of Language selection.
CR P-MANE	Status of Power management setting
CR TILE	Status of Tile mode ON/OFF setting
CR TILE-HSETS	Status of Tile mode, the number of Horizontal array.
CR TILE-VSETS	Status of Tile mode, the number of Vertical array.
CR TILE-HLOCAT	Status of Tile mode, the number of Horizontal allocation.
CR TILE-VLOCAT	Status of Tile mode the number of Horizontal allocation.
CR TILE-BZLHADJ	Status of Tile mode, the width of bezel（Horizontal）
CR TILE-BZLVADJ	Status of Tile mode, the width of bezel (Vertical)
CR ONPROG	Status of On Program information/
CR WINTERMODE	Status of Winter mode Information.
CR PANELPROTECT	Statuses of Panel protect Information.
CR LEDLIGHT	Status of LED light Information.
CR AVAUTOSHUT	Status of AV auto shut OFF Information.
CR CHILDLOCK	Statuses of Child lock Information.
CR RCINHIBITION	Status of RC Inhibit Information.

Other Read Command Table

Status read command	Item
CR STATUS	Status of the operation of the monitor.
CR SIGNAL	Status of with or without signal.
CR FREEZE	Status of Freeze setting.
CR FANLOCK	Statuses of fun lock error.
CR TEMP	Status of current temperature value.

UK5 Read Command Table (Basic Command)

Command	Item	Note
CR0	Power	On, Standby, power error,
CR1	Input Mode	AV1, AV2, ..., DVI, PC
CR WIDE	Wide mode	Auto, Normal, Full, …
CR PICTURE	Picture mode	Dynamic, Standard, …
CR SIGNAL	Signal existence	Signal / No signal
CR CHILD	Child lock	On / Off
CR PSAVE	Power save	On / Off
CRTM	Panel usage time	
CR RMC	RC inhibition	On / Off
CR MDL	Model number	52LH1

Error code Table

Error code	
?	・ Receiving the data that cannot be decoded ・ The wrong indication of parameter 　（Wrong figured number, or wrong word is included.）
０００	Normal receiving（no error）
１０２	If the command of out of range is directly entered valuable parameter.
１０３	No matching with Hardware (Command for optional function which is not equipped.)
２０１	If the command of "Out of range" is entered by inclement or decrements by numeric value.
３０１	While capturing the picture, no execution. Wait and transmit command again.
４０２	While PIN code is in operation, no execution. Wait and transmit command again.
１０１	The errors not including above.

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